WBLE-SL ► UECM3463	-202305-EZZ ▶ Quizzes ▶ 202306UECM	34630E3a ► Review of preview	Update this Quiz			
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Started on	Friday, 25 August 2023, 07:35 PM	Review of preview				
Completed on	Friday, 25 August 2023, 07:37 PM					
Time taken 1 min 6 secs Grade 0 out of a maximum of 10 (0%)						
Grade	o out of a maximum of 10 (0%)					
1 🕏 Marks: 1	The number of claims in a period has aggregate claim amount in the period	a Binomial distribution with parameters m = 5 and q = 0.54. The amount of each claim X follows P(X = x) = 0.25, x = 1, 2, 3, 4. The number of claims and claim amounts are independent. S is the d. Calculate F _S (4).				
	Answer:	x				
	Make comment or override grade					
	Incorrect Correct answer: 0.315604					
	Marks for this submission	: 0/1.				
2 🕏 Marks: 1		a geometric distribution with mean 5.00. The amount of each claim is distributed as follows Claim Amounts, $X \begin{vmatrix} 0 & 1 & 2 & 3 & 4 \\ Probability & 0.32 & 0.31 & 0.19 & 0.12 & 0.06 \\ 0.32 & 0.31 & 0.32 & 0$				
	Answer:	X X				
	Make comment or override grade					
	Incorrect Correct answer: 0.460108					
	Marks for this submission	: 0/1.				
· ·						
3 		a Poisson rate of 0.39 per minute. makes on each customer is randomly distributed as follows:				
	Determine the probability of making	Profit 0 1 2 3 Probability 0.42 0.30 0.15 0.13 3 profit in 10 minutes				
	Answer:	X X				
	Make comment or override grade					
	Incorrect Correct answer: 0.151879					
	Marks for this submission	: 0/1.				

4 * Marks: 1	Claim counts and sizes on an insurance coverage are independent and have the following distribution: Number of claims Probability 0 0.64 1 0.18 2 0.18					
	Let S be the aggregate claims. Calculate F _S (600)					
	Answer:	X X				
	Make comment or override grade Incorrect Correct answer: 0.86743 Marks for this submission	: 0/1.				
5 🕏	-					
Marks: 1	The number of claims on an insurance coverage follows a zero modified Poisson distribution with mean $\lambda = 5$ and $p_0^M = 0.38$. The size of each claim has the following distribution:					
	Answer:	X X				
	Make comment or override grade Incorrect Correct answer: 0.476 Marks for this submission	: 0/1.				
6 ☑ Marks: 1	The number of claims has a Poisson distribution with mean $\lambda = 2.7$. The distribution of the amount of claims(in thousand) is Amount of claims 1 2 3 4 5 6 Probability 0.17 0.31 0.16 0.08 0.06 0.22 The number of claims and the amount of claims are independent. Determine the expected total amount of claims given that at least 4 thousand have been claimed.					
	Answer:	x				
	Make comment or override grade Incorrect Correct answer: 10.6577 Marks for this submission	: 0/1.				
7 🕏	For an insurance coverage, you are g	iven:				
Marks: 1	 Claim frequency (N^M), before application of deductibles, follows a zero modified geometric distribution with parameters β = 10 and P(N^M = 0) = 0.65. Claim size (X^M), before application of deductibles, follows a zero modified Poisson distribution with parameters λ = 2 and P(X^M = 0) = 0.54. Claim frequency and claim size are independent. There is a deductible of 3 per loss. 					
	Calculate the probability number of p	ayments being greater than 8 times 1000, i.e. calculate $1000P(N^P > 8)$				
	Answer:	x				
	Make comment or override grade					
	Incorrect Correct answer: 0.200935 Marks for this submission	: 0/1.				

8 P Marks: 1	Losses follow a compound distribution For Severity Calculate the probability that aggregations Answer:	with both frequency and severity having discrete distribution.\ For frequency $P_N(z) = 0.39 + 0.61[(1+0.79(z-1))^8 - (1-0.79)^8]/[1-(1-0.79)^8]$ $P_X(z) = 0.46 + 0.29z + 0.21z^2 + 0.03z^3 + 0.01z^4$ te losses is exactly 3] x
	Make comment or override grade Incorrect Correct answer: 0.074 Marks for this submission	: 0/1.	
9 	 q varies by insured according to Claim size, before application to Coverage is subject to claim lin Number of claims and claim size 	insured follows a Binomial distribution with parameters $m=8$ and q . θ beta distribution with parameters θ and θ beta distribution with parameters θ and θ claims limits, follows a gamma distribution with parameters θ and θ are 920. The parameters θ and θ are 920. The parameters θ are 920. The 920 are 920.	
	Answer: Make comment or override grade Incorrect Correct answer: 0.999968 Marks for this submission	: 0/1.	X
10 € Marks: 1	Claim size, follows a Gamma diNumber of claims and claim siz	insured follows a Poisson distribution with mean 3. stribution with parameters $\alpha=4$, $\theta=880$. es are independent. of the aggregate losses and then calculate the skewness] x
	Make comment or override grade Incorrect Correct answer: 0.774597 Marks for this submission	: 0/1.	